

Message Text

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ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-08 NSAE-00 USIA-06
TRSE-00 EUR-12 DOE-11 ISO-00 SOE-02 /040 R

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APPROVED BY EB/EWT RWPRACHT
ASOLGA, ACT. DIR/PPD/OEA/BTR
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TO AMEMBASSY PARIS PRIORITY
INFO AMEMBASSY WARSAW PRIORITY

C O N F I D E N T I A L STATE 041284

EXCON USOECD

E.O. 11652:XGDS-1

TAGS: ESTC, COCOM, PL

SUBJECT: EXPORT OF WAVEGUIDE CIRCULATORS TO POLAND -IL 1537

REF: BTR CASE NO. 280435(UNITRONIX CORP.); OC DOC NO 5864;
LD NO. PENDING

HOLDING ACTION NOTICE

1) THE UNITED STATES DELEGATION IS TO WITHHOLD ACTION IN
SUBMITTING THIS CASE TO THE COMMITTEE UNTIL SPECIFICALLY
NOTIFIED TO DO SO.

2) THIS CASE IS IN THE PROCESS OF INTERAGENCY REVIEW AND
CHANGES IN THE PARTICULARS OF THE TRANSACTION REMAIN A
POSSIBILITY.

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3) THE UNITED STATES AUTHORITIES HAVE BEEN ASKED TO APPROVE
THE EXPORT TO POLAND OF 12 TYPE CSH-165, S-BAND HIGH
POWER WAVEGUIDE JUNCTION CIRCULATORS WITH A TOTAL VALUE OF
26,388 DOLLARS AND COVERED BY IL 1537(C).

4) THIS EQUIPMENT IS CONSIGNED TO THE INSTITUTE OF NUCLEAR

RESEARCH, EXPERIMENTAL ESTABLISHMENT FOR NON-SERIAL EQUIPMENT, 05-400 OTWOCK/SWIERK, WHERE IT WILL BE USED FOR

INCORPORATION INTO THE POLISH-MADE NEPTUN 10 RADIOGRAPHIC X-RAY LINEAR ACCELERATORS WHICH ARE DISTRIBUTED IN POLAND AND FRANCE FOR MEDICAL APPLICATION IN ONCOLOGICAL CENTERS.

5) THE CSH-165 IS AN S-BAND MICROWAVE WAVEGUIDE CIRCULATOR USED TO ISOLATE THE MAGNETRON POWER SOURCE FROM THE LOAD. THE CIRCULATOR HAS A T-SHAPED CONFIGURATION, OPERATES AT 2988-3008 MHZ, HAS A 2 MEGAWATT PEAK POWER AND 2 KILOWATT AVERAGE POWER CAPABILITY; THE ISOLATION IS 23DB, THE INSERTION LOSS 0.15 DB AND THE VSWR 1.15. THE CIRCULATOR IS WATER-COOLED (1/4GPM) AND WEIGHS 13 POUNDS. SWITCHING OR ISOLATOR ACTION IS ACCOMPLISHED BY A MAGNETICALLY CONTROLLED FERITE DEVICE IN THE WAVEGUIDE.

THE LINEAR ACCELERATOR USES A MAGNETRON CONTROL SIGNAL TO ACCELERATE ELECTRONS WHICH BOMBARD A TARGET WHICH IN TURN PRODUCES X-RAYS VIA THE BREMSSTRAHLUNG EFFECT. THE MAGNETRON REQUIRED PRODUCES HIGH PEAK AND AVERAGE POWERS AND USES THE CIRCULATOR FOR ISOLATION FROM REFLECTED POWER BETWEEN ITSELF AND THE LOAD (ACCELERATOR).

6) BROCHURES DESCRIBING THIS EQUIPMENT HAVE BEEN DEPOSITED WITH THE SECRETARIAT.

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7) THE UNITED STATES AUTHORITIES CONSIDER THIS EXPORT REASONABLE AND APPROPRIATE FOR THE STATED END-USE. THEY WISH TO APPROVE IT UNDER THE URGENCY PROCEDURE SET FORTH IN COCOM DOC. REG. (77)1, PARAGRAPH 4(B) AS APPLICANT STANDS TO LOSE ORDER IF NOT SHIPPED BY 3/1/78, AND WOULD APPRECIATE THE VIEWS OF MEMBER GOVERNMENTS.

FYI-- BROCHURES HAVE BEEN AIRMAILED FROM COMMERCE ON 2/14/78. END FYI VANCE

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NNN

*** Current Handling Restrictions *** n/a

*** Current Classification *** CONFIDENTIAL

Message Attributes

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Decaption Note:
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Disposition Approved on Date:
Disposition Case Number: n/a
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